



# Bond Proposal

## 2013





# Definitions

- ISO – Insurance Service Office
  - Public Protection Class 1 -10





# Apparatus types

**Engine**



**Quint**  
*(75' aerial)*



**Truck**  
*(100' aerial)*





# Apparatus types

**Rescue**



**Medic**





**Fire Station #2**  
*3711 Ohio Drive*



**Fire Station #3**  
*5449 Warren Pkwy*



**Fire Station #4**  
*4485 Cotton Gin Road*



**Central Fire Station**  
*8601 Gary Burns Drive*



**Fire Station #7**  
*330 W. Stonebrook Pkwy*



**Fire Station #6**  
*3535 Eldorado Pkwy*



**Fire Station #5**  
*14300 Eldorado Pkwy*





# Existing Station Profile

| Item | Description              | Station Address         | Station Square Footage | Year Put in Service |
|------|--------------------------|-------------------------|------------------------|---------------------|
| 1    | Old Central Fire Station | 8860 Tomlin Dr.         | 11,161                 | 1987                |
| 2    | Central Fire Station     | 8601 Gary Burns Dr.     | 45,152                 | 2006                |
| 3    | Fire Station No. 2       | 3711 Ohio Dr.           | 8,326                  | 1996                |
| 4    | Fire Station No. 3       | 5449 Warren Pkwy.       | 9,080                  | 1999                |
| 5    | Fire Station No. 4       | 4485 Cotton Gin Rd.     | 11,061                 | 2004                |
| 6    | Fire Station No. 5       | 14300 Eldorado Pkwy.    | 13,458                 | 2006                |
| 7    | Fire Station No. 6       | 3535 Eldorado Pkwy.     | 13,458                 | 2008                |
| 8    | Fire Station No. 7       | 330 W. Stonebrook Pkwy. | 14,582                 | 2012                |
| 9    | Fire Station No. 8       | 14700 Rolater Rd.       | 19,462                 | 2014                |

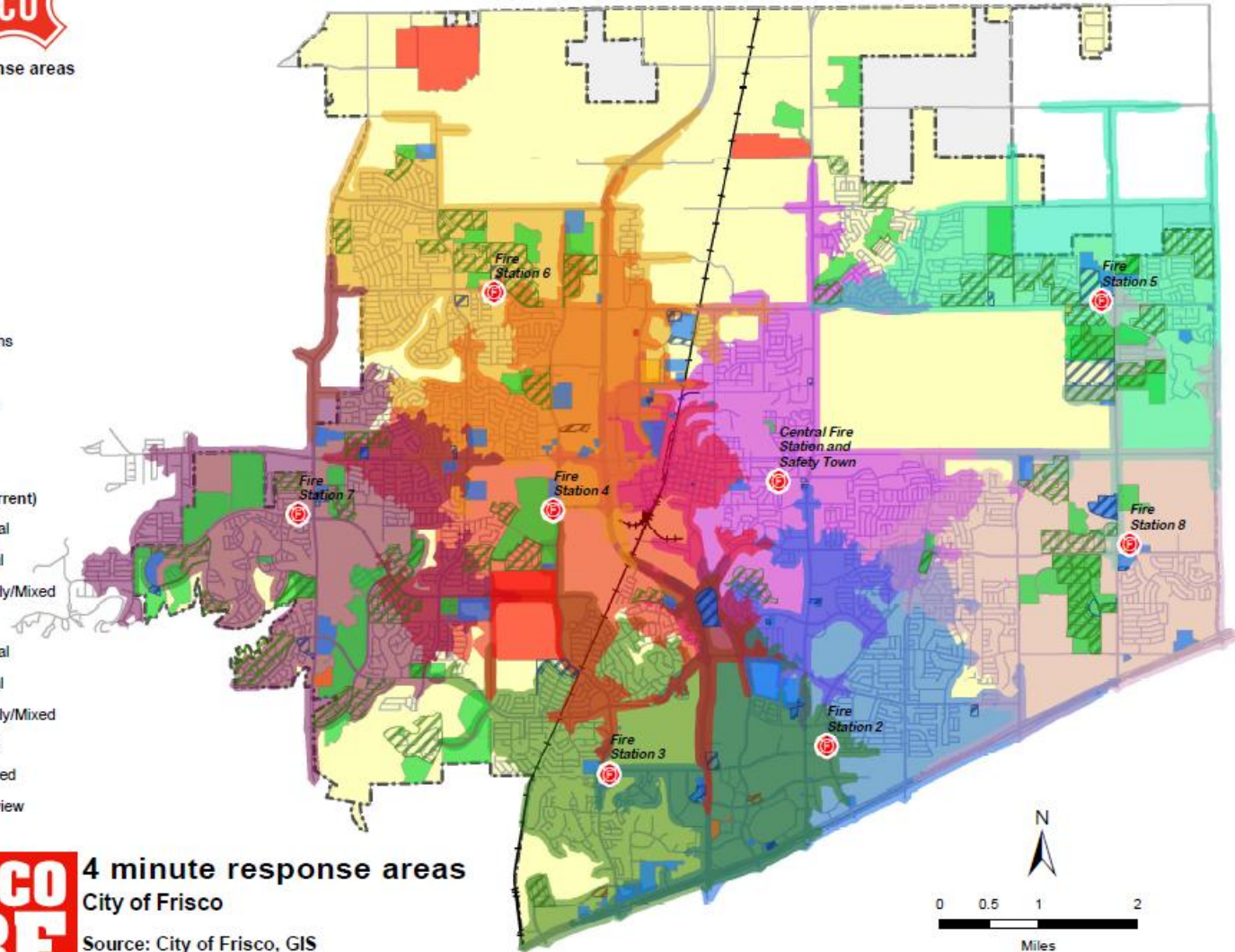






#### 4 minute response areas

- Station 1
- Station 2
- Station 3
- Station 4
- Station 5
- Station 6
- Station 7
- Station 8
- Fire Stations
- Railroad
- City Limits
- City
- ETJ
- Construction (Current)**
- Commercial
- Residential
- Multi-Family/Mixed
- Submittals**
- Commercial
- Residential
- Multi-Family/Mixed
- Proposed Zoning**
- PZ Approved
- Under Review



#### 4 minute response areas City of Frisco

Source: City of Frisco, GIS  
Date: October 22, 2013





# Department Comparative Analysis

| Item | City            | Counties            | Population | TDWR<br>Projected<br>Population,<br>2030* | Square Miles * | Fire<br>Stations * | Ambulances<br>(Medics) * | Firefighters | Total<br>Employees<br>(Department) | ISO Rating | Training<br>Tower | Live Burn<br>Training | Class Room | FF / 1000<br>Population | Square Miles /<br>Station |
|------|-----------------|---------------------|------------|---|----------------|--------------------|--------------------------|--------------|------------------------------------|------------|-------------------|-----------------------|------------|-------------------------|---------------------------|
| 1    | Cedar Park (TX) | Williamson / Travis | 81,061     | 90,726                                    | 33.41          | 4                  | 0                        | 63           | 70                                 | 1          | Yes               | Yes                   | Yes        | 0.78                    | 8.35                      |
| 2    | Denton          | Denton              | 121,123    | 229,964                                   | 94.90          | 7                  | 4                        | 149          | 155                                | 1          | Yes               | Yes                   | Yes        | 1.23                    | 13.56                     |
| 3    | Frisco          | Collin / Denton     | 135,220    | 197,000                                   | 70.00          | 7                  | 5                        | 153          | 174                                | 1          | Yes               | No                    | Yes        | 1.13                    | 10.00                     |
| 4    | Mesquite        | Dallas / Kaufmann   | 139,950    | 180,004                                   | 63.00          | 7                  | 6                        | 198          | 204                                | 1          | Yes               | Yes                   | Yes        | 1.41                    | 9.00                      |
| 5    | Plano           | Collin / Denton     | 261,900    | 275,000                                   | 72.00          | 13                 | 7                        | 307          | 381                                | 1          | Yes               | No                    | Yes        | 1.17                    | 5.54                      |
| 6    | Richardson      | Dallas / Collin     | 103,297    | 116,000                                   | 28.60          | 6                  | 4                        | 138          | 152                                | 1          | Yes               | Yes                   | Yes        | 1.34                    | 4.77                      |
| 7    | Allen           | Collin              | 88,541     | 98,000                                    | 27.11          | 5                  | 4                        | 98           | 111                                | 2          | Yes               | No                    | Yes        | 1.11                    | 5.42                      |
| 8    | Arlington       | Tarrant             | 367,837    | 450,000                                   | 95.88          | 17                 | 0                        | 312          | 362                                | 2          | Yes               | Yes                   | Yes        | 0.85                    | 5.64                      |
| 9    | Garland         | Dallas / Collin     | 231,618    | 241,767                                   | 57.10          | 11                 | 11                       | 225          | 253                                | 2          | Yes               | Yes                   | Yes        | 0.97                    | 5.19                      |
| 10   | Lewisville      | Dallas / Denton     | 95,290     | 122,002                                   | 36.40          | 7                  | 4                        | 129          | 152                                | 2          | Yes               | Yes                   | Yes        | 1.35                    | 5.20                      |
| 11   | McKinney        | Collin              | 141,000    | 275,000                                   | 115.80         | 8                  | 5                        | 150          | 166                                | 2          | Yes               | Yes                   | Yes        | 1.06                    | 14.48                     |
| 12   | Round Rock (TX) | Williamson          | 102,665    | 192,941                                   | 26.30          | 7                  | 0                        | 112          | 129                                | 2          | No                | Yes                   | Yes        | 1.09                    | 3.76                      |
| 13   | Sugarland (TX)  | Fort Bend           | 84,511     | 105,000                                   | 52.55          | 7                  | 0                        | 87           | 104                                | 2          | No                | No                    | Yes        | 1.03                    | 7.51                      |
| 14   | Carrollton      | Dallas / Denton     | 121,150    | 128,500                                   | 37.00          | 7                  | 3                        | 150          | 165                                | 3          | Yes               | No                    | Yes        | 1.24                    | 5.29                      |
| 15   | San Angelo (TX) | Tom Green           | 93,200     | 102,120                                   | 58.61          | 8                  | 10                       | 144          | 170                                | 3          | Yes               | Yes                   | Yes        | 1.55                    | 7.33                      |
| 16   | Southlake       | Tarrant / Denton    | 27,080     | 30,107                                    | 22.40          | 3                  | 2                        | 56           | 64                                 | 4          | No                | No                    | Yes        | 2.07                    | 7.47                      |







# Department Comparative Analysis

| Item | Descriptive Statistical Analysis | Population     | Projected Population, 2030 * | Square Miles * | Fire Stations * | Ambulances (Medics) * | Firefighters | Total Employees (Department) | FF / 1000 Population | Square Miles / Station |
|------|----------------------------------|----------------|------------------------------|----------------|-----------------|-----------------------|--------------|------------------------------|----------------------|------------------------|
| 1    | Minimum                          | 27,080         | 30,107                       | 22.4           | 3               | 0                     | 56           | 64                           | 0.78                 | 3.76                   |
| 2    | Maximum                          | 367,837        | 450,000                      | 115.8          | 17              | 11                    | 312          | 381                          | 2.07                 | 14.48                  |
| 3    | Range (Max - Min)                | <b>340,757</b> | <b>419,893</b>               | <b>93.4</b>    | <b>14</b>       | <b>11</b>             | <b>256</b>   | <b>317</b>                   | <b>1.29</b>          | <b>10.72</b>           |
| 4    | Average                          | 137,215        | 177,133                      | 55.69          | 7.75            | 4.06                  | 154.44       | 175.75                       | 1.21                 | 7.41                   |
| 5    | Median (50%)                     | 112,210        | 154,252                      | 54.83          | 7.00            | 4.00                  | 146.50       | 160.00                       | 1.15                 | 6.48                   |
| 6    | Difference (Av - Md)             | <b>25,005</b>  | <b>22,881</b>                | <b>0.87</b>    | <b>0.75</b>     | <b>0.06</b>           | <b>7.94</b>  | <b>15.75</b>                 | <b>0.06</b>          | <b>0.92</b>            |
| 7    | Frisco Position                  | 6              | 6                            | 5              | 6               | 5                     | 5            | 5                            | 9                    | 14                     |



# NEW FACILITIES

- An ISO Consultant was commissioned to evaluate future fire station locations with the objective of providing the best service while maintaining our current ISO Rating of ISO Class-1.
- A more comprehensive Master Plan study is needed to ensure the best response, coverage, and ISO compliance.





# NEW FACILITIES

- In 2013 scoring for ISO yielded a 91.42 which exceeded the lowest score of 90.0 in order to maintain an ISO Class-1 Rating.
- Current station locations, apparatus placement and staffing are based on an evaluation of future growth and population patterns.





# NEW FACILITIES-LAND PURCHASE

- FY 2014
  - \$1,000,000
  - Funding is requested to be set aside for the purchase of land for one (1) possibly two (2) fire stations. One station during this bond period and one possibly after. These stations would possibly be in the northern area of the City and/or located in the area of Eldorado Pkwy and North County or Rockhill Pkwy. and Preston Rd.





# NEW FACILITIES, LAND PURCHASE

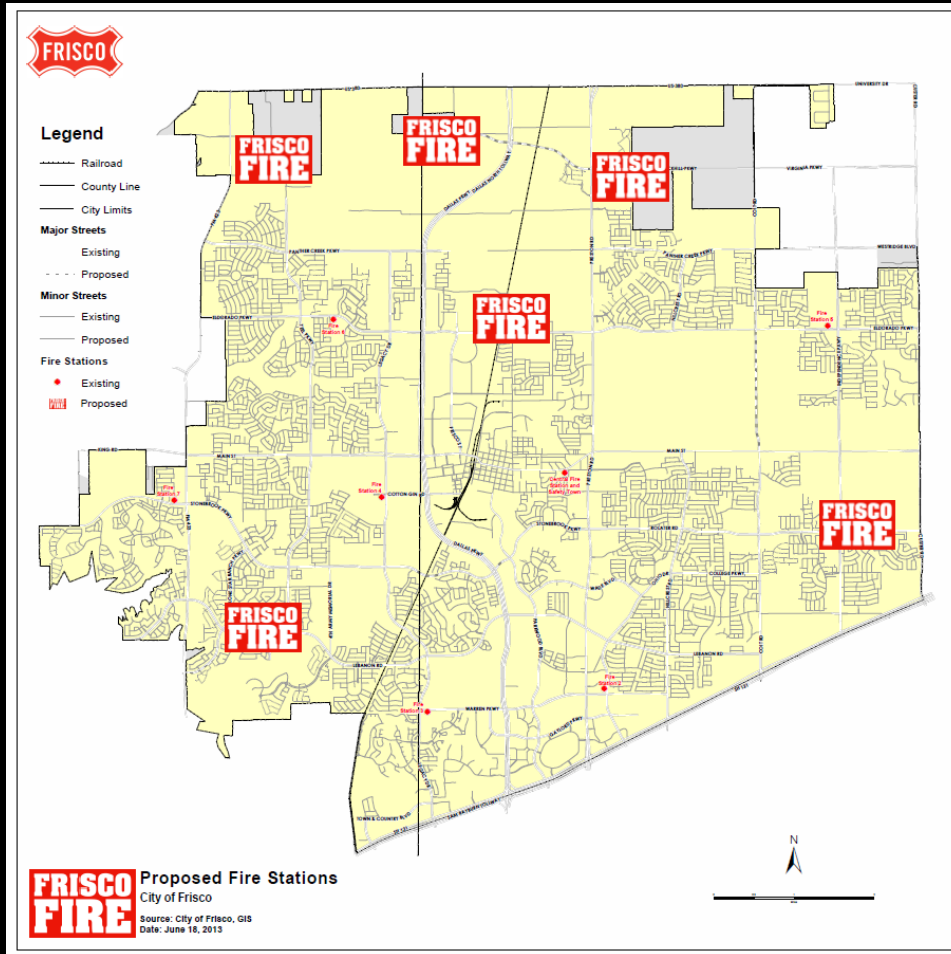


- New facility budget estimates are anticipated to increase between 5% and 7% annually.





# 3 Additional Fire Stations





# 3 Additional Fire Stations



- Station 9
  - \$7,000,000
- Station 10
  - \$9,000,000
- Station 11
  - \$8,300,000





# **NEW FACILITIES, FIRE STATION NO. 9**

- This station is programmed for the southwest area of the City. The consultant recommends this station to be built as soon as possible in order to sustain the ISO Class-1 Rating.
- We recommend initially staffing this station with one (1) Quint with a Medic to follow when necessary. A total of six (6) firefighters per shift would be necessary for ISO Rating compliance.





# **NEW FACILITIES, FIRE STATION NO. 10**

- This station is programmed for the northern area of the City at Rockhill Pkwy. and the Dallas North Tollway (DNT). There is currently land programmed into the Mall Development for this station.
- We recommend staffing this station with one (1) Engine, one (1) Truck and one (1) Medic. A total of ten (10) firefighters per shift would be necessary for ISO Rating compliance depending upon the population, buildings and density.





# **NEW FACILITIES, FIRE STATION NO. 11**

- This station is programmed for Preston Rd. and Rockhill Pkwy. No land has been purchased at this time for the station site.
- We recommend staffing this station with one (1) Engine, one (1) Rescue and one (1) Battalion Chief. A total of nine (9) firefighters per shift would be necessary for ISO Rating compliance depending on the population, buildings and density.







# PUBLIC SAFETY TRAINING CENTER

- FY 2015
- \$9,200,000





# **NEW FACILITIES, PUBLIC SAFETY TRAINING CENTER - PHASE 1**

- Currently there is no dedicated training center for the Police and Fire Department. ISO requires the Department to have a burn building that firefighters can train in live firefighting.
- The current burn facility at Exide has been closed, and the facility at Collin College is being demolished in April 2014. No plans have been solidified or a general location selected for the relocation of this facility.





# **NEW FACILITIES, PUBLIC SAFETY TRAINING CENTER - PHASE 1**

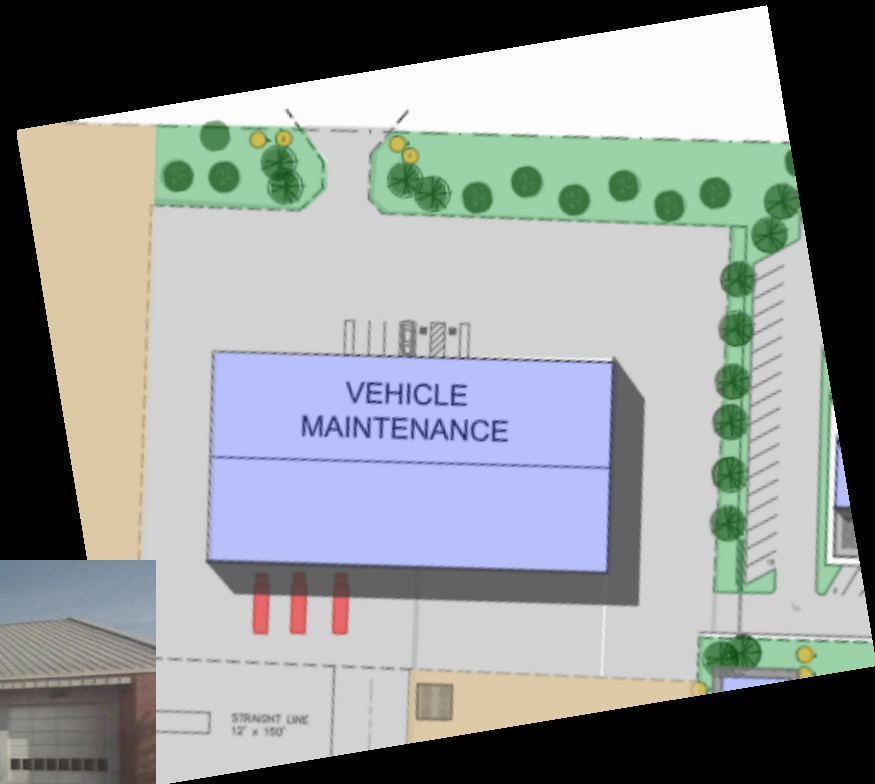
- A joint training center for Police and Fire could be constructed for both agencies thereby reducing costs and minimizing space and land use.
- Training Rooms, Burn Building, Skid Pad, Training Tower





# New Fleet Services facility

- FY 2015
- \$4,000,000





# **NEW FACILITIES, FIRE FLEET MAINTENANCE FACILITY**

- Current Area Too Small as Fleet Increases
- Current Facility Outdated
- Storage of Some Reserve & Training Apparatus if Co-located







# Facility Renovations Logistics & Fire Marshal

- FY 2015-2016
- \$1,600,000





# Current Department supply areas

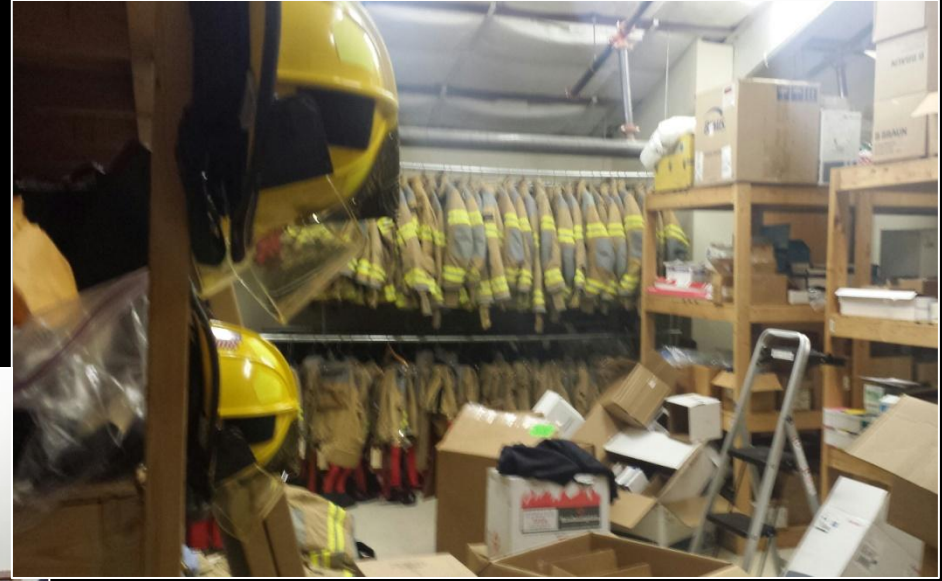
- Currently, we have all of the Department's EMS Supplies, Uniforms, Fire Equipment, Protective Clothing and Office Supplies spread throughout the different fire stations.





# Current Department supply areas

## Station 3



## Station 4

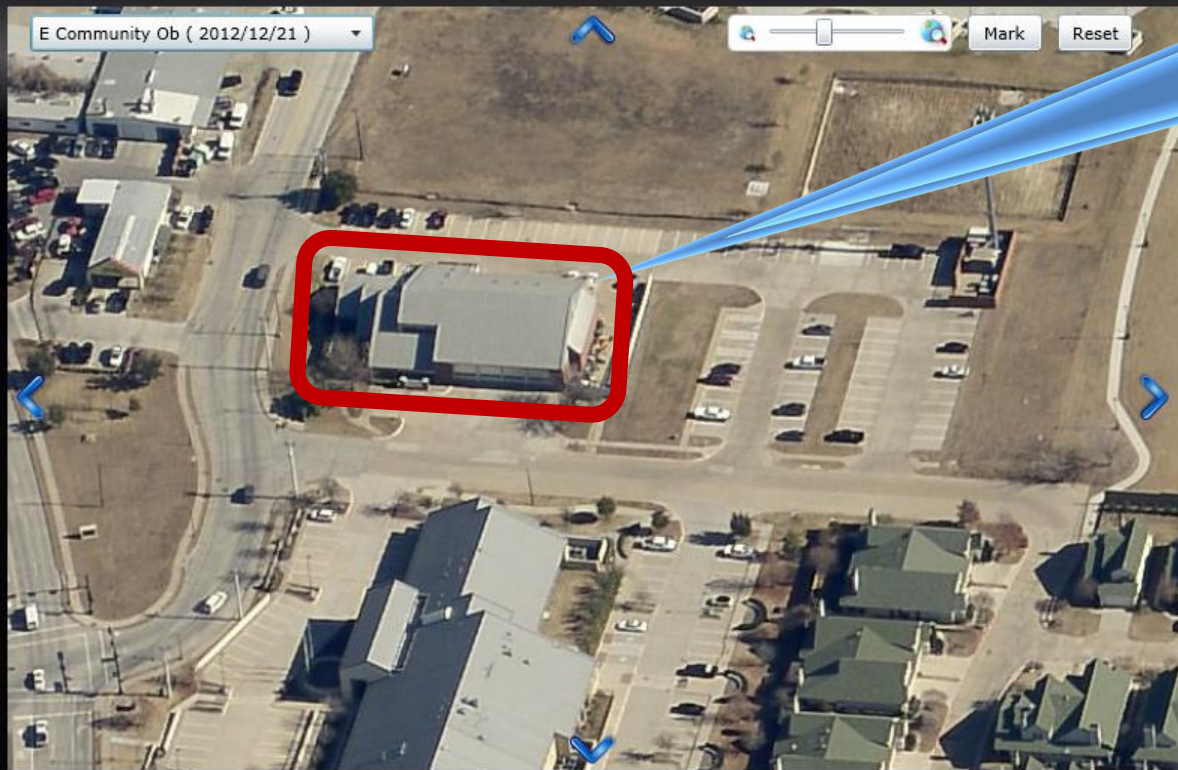






# Logistics Building 8860 Tomlin

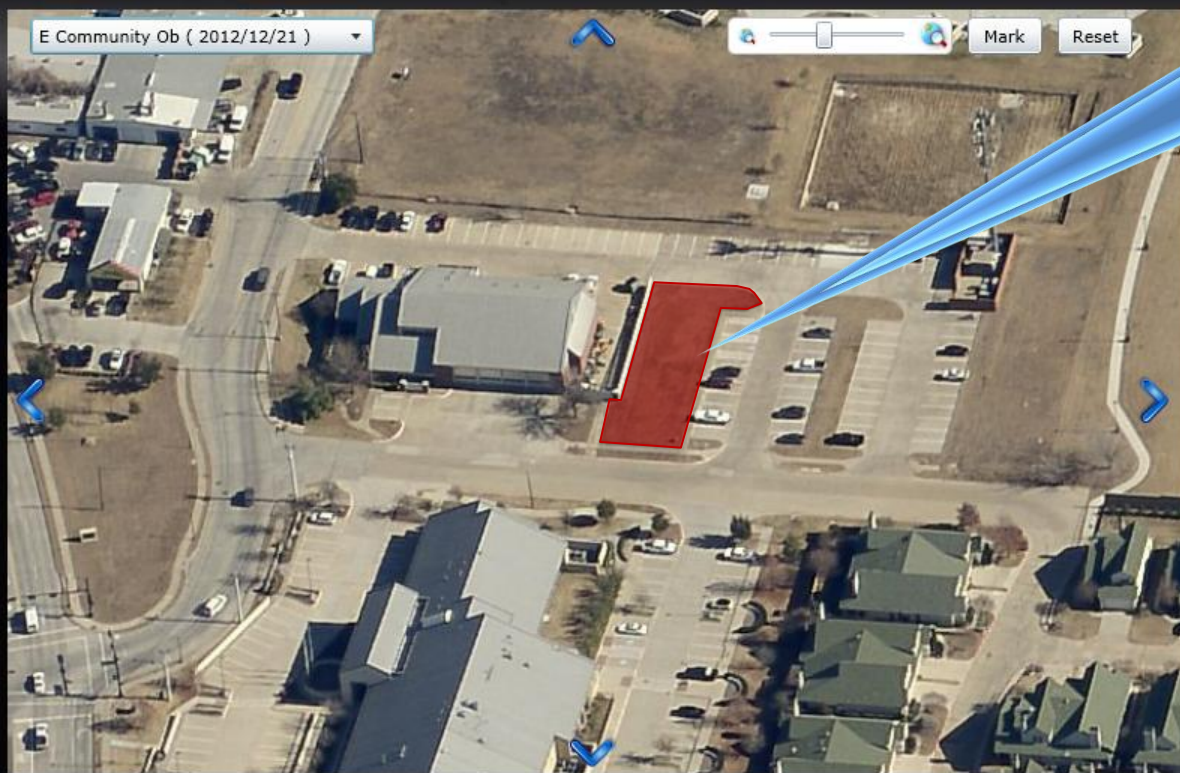
Renovate site to  
accommodate  
centralized  
supply logistics





# Fire Marshal's Office addition 8860 Tomlin

Build additional  
office space





# Facility Renovations

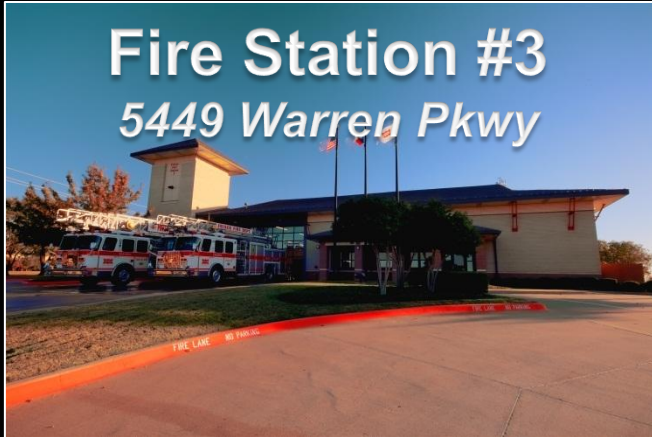
## Old Central, Safety Town, Stations 2, 3, 4

- FY 2014 – 2015
- \$2,250,000

**Fire Station #2**  
*3711 Ohio Drive*



**Fire Station #3**  
*5449 Warren Pkwy*



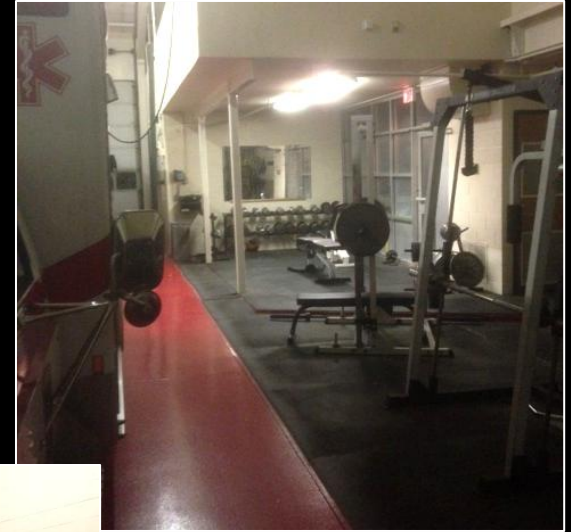
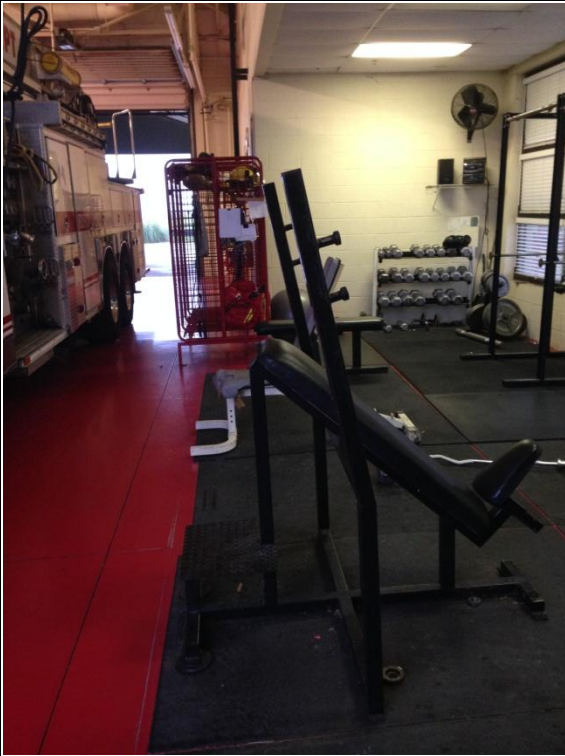
**Fire Station #4**  
*4485 Cotton Gin Road*







# Work-Out Areas Stations 2, 3, 4





# Restrooms Stations 2, 3, 4





# Protective Gear Lockers Fire Stations 2 & 3







# Bedrooms / Co-Ed Stations 2, 3, 4





# Fire Station 7





# Facility Renovations Safety Town

- Entry and Security upgrade at Frisco Fire Safety Town







# **FIRE STATION AND FRISCO FIRE SAFETY TOWN RENOVATIONS (FRISCO FIRE SAFETY TOWN)**

- We recommend completing security upgrades to the educational building, including the installation of a security door in the front lobby area of the educational building. This door is identical to security doors that the Frisco ISD utilizes and provides for a secure entry into the Safety Town facility (\$15,000).





# Facility Renovations

## **FIRE STATION AND FRISCO FIRE (LED SIGNS, FIRE STATIONS 2, 3, 4 AND 5)**

- LED Electronic Signs are recommended for Fire Stations No. 2, 3, 4 and 5. This tool is used for community outreach and provides the opportunity to pass along important information to citizens.
- Venus 1500 Software





# NEW & REPLACEMENT APPARATUS

- Budget estimates include pricing for the vehicle and the complementary equipment package.
- Decision Points-Service, ISO & Schedule



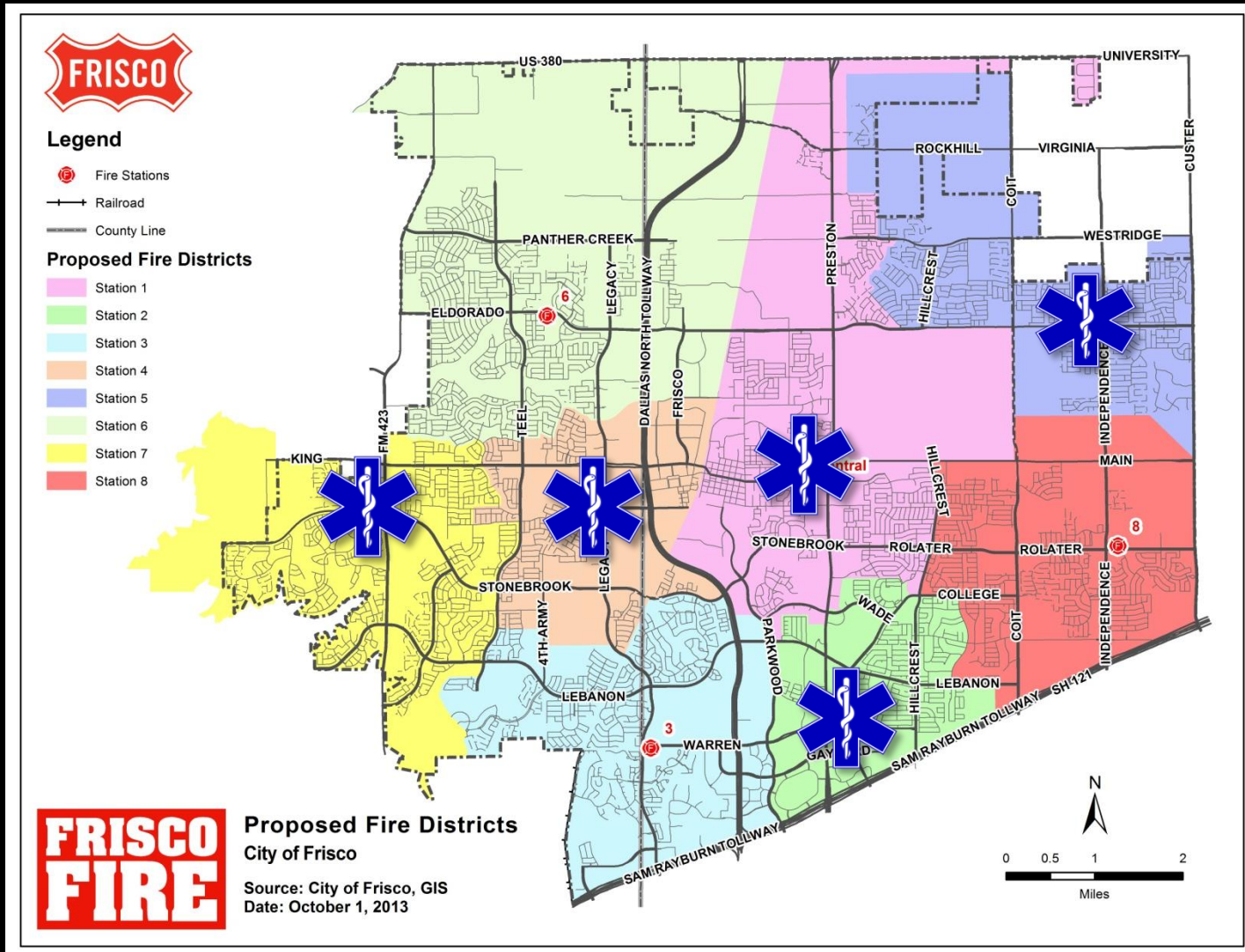


# Apparatus Service Schedule

| Item | Apparatus Description | Apparatus Service Schedule  |
|------|-----------------------|---|
| 1    | Engine / Quint        | 10-Years Frontline Service or 100,000 miles; 10,000 Engine Hours<br>10-Years Reserve            |
| 2    | Truck / Platform      | 12-Years to 15-Years Frontline Service or 100,000 miles; 10,000 Engine Hours<br>5-Years Reserve |
| 3    | Brush                 | 12-Years Frontline Service or 10,000 Engine Hours<br>8-Years Reserve                            |
| 4    | Rescue                | 12-Years Frontline Service or 100,000 Miles; 10,000 Engine Hours<br>8-Years Reserve             |
| 5    | Medics (Ambulances)   | 5-Years Frontline Service or 125,000 Miles; 10,000 Engine Hours<br>5-Years Reserve              |



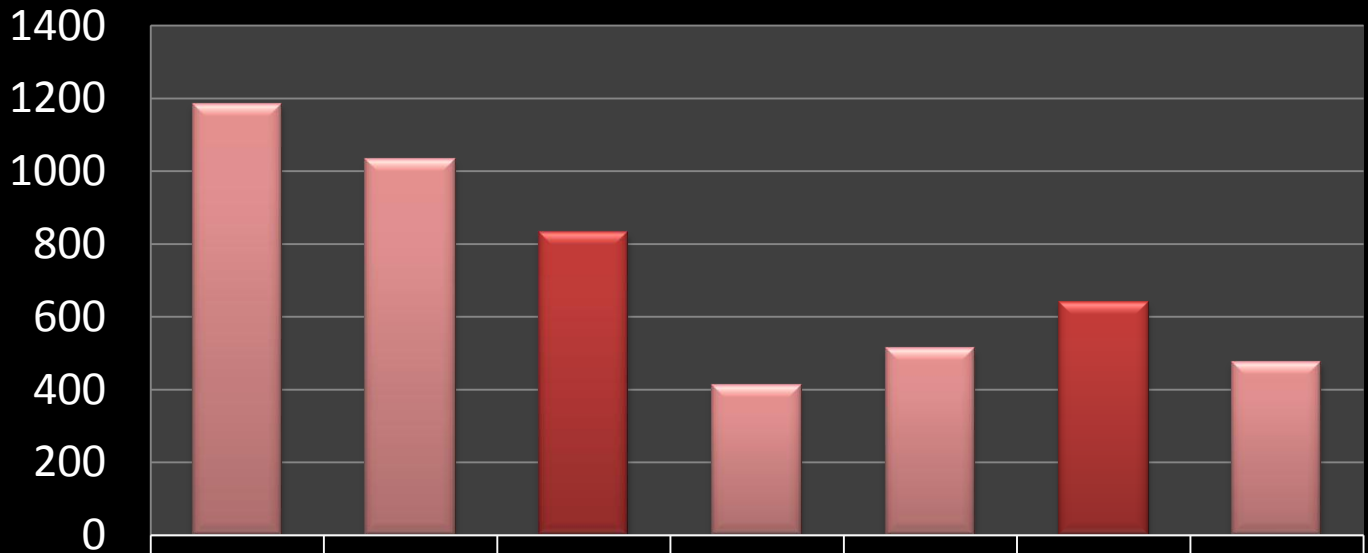
# Current Medic locations





# EMS / Rescue Incidents

## October 1, 2012 – September 30, 2013

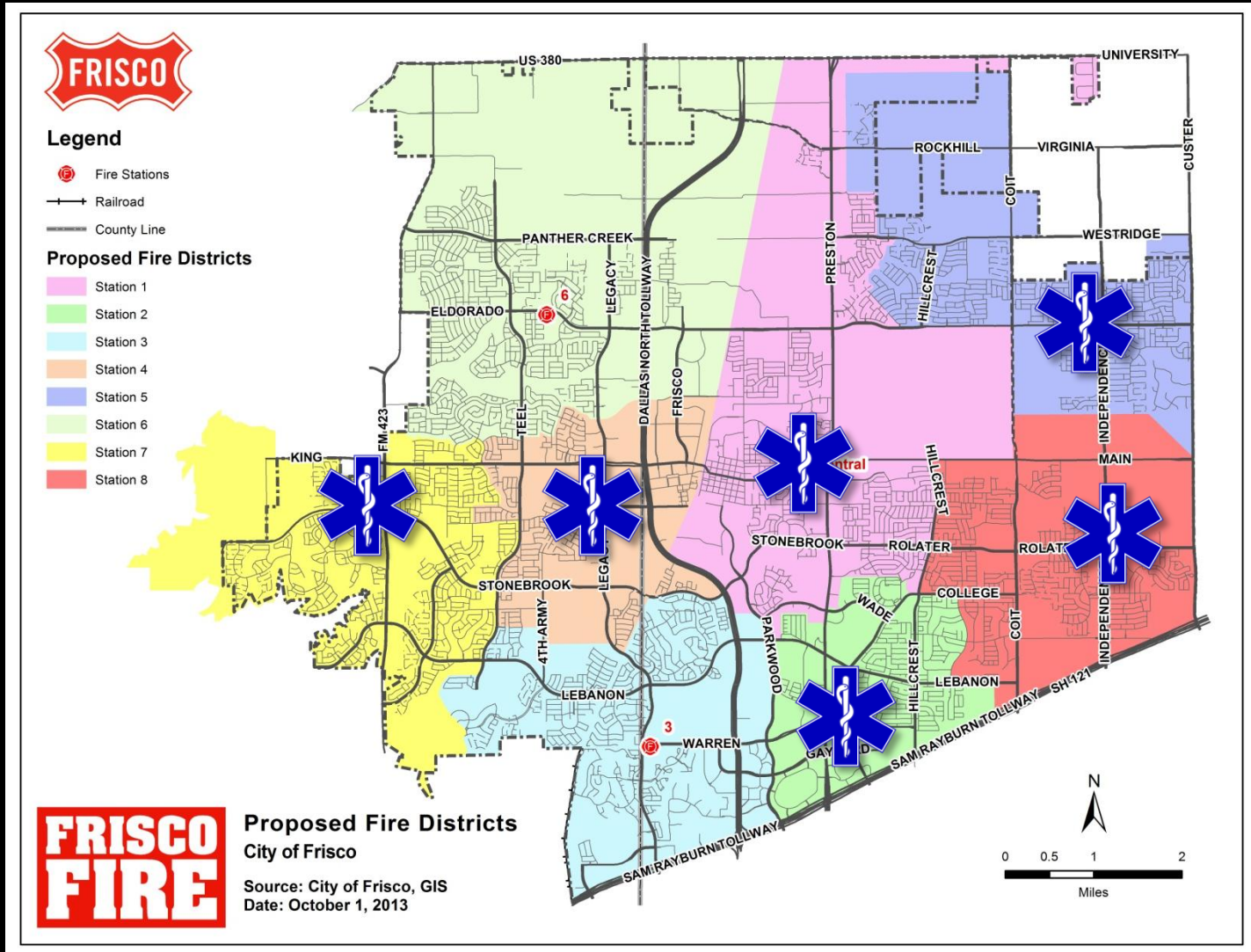


|                               | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 | District 7 |
|-------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Stations with an Ambulance    | 1185       | 1032       |            | 411        | 512        |            | 476        |
| Stations without an Ambulance |            |            | 832        |            |            | 639        |            |





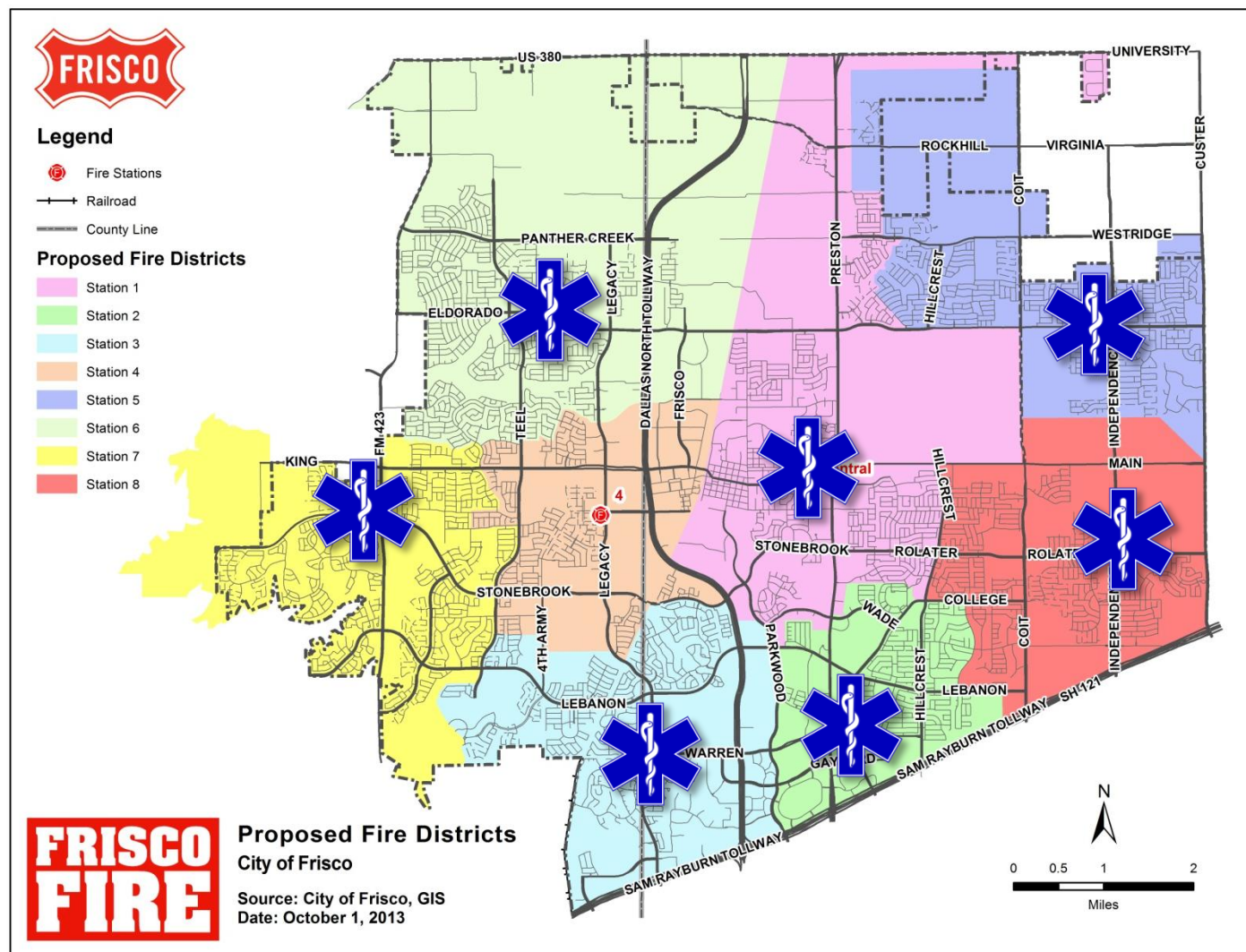
# Ambulance being added to Station 8





# Add a Medic to Station 3 and Move Medic 4 to Station 6

- FY 2014
- \$944,000





# Station 8 New Apparatus

FY 2016

- Truck
  - \$2,000,000





# Station 9 New Apparatus

(Total is included in the Building Cost Estimate)



FY 2016

- Quint







# Station 10 New Apparatus

(Total is included in the Building Cost Estimate)

FY 2016

- Truck
- Engine
- Ambulance





# Station 11 New Apparatus

(Total is included in the Building Cost Estimate)

FY 2018



- Rescue



- Quint



- Medic





# Replacement Apparatus



FY 2014

- Engine 3
  - \$1,000,000





# Replacement Apparatus

FY 2016



- Engine 2
  - \$1,320,000



- Brush 1
  - \$280,000



# Replacement Apparatus

FY 2017

- Medic 7
  - \$538,000





# Replacement Apparatus

FY 2018

- Quint 6
  - \$1,440,000
- Engine 1
  - \$1,200,000
- Rescue 1
  - \$1,800,000





# Replacement Apparatus

FY 2018

- Medic 1
  - \$560,000
- Medic 2
  - \$560,000
- Medic 4
  - \$560,000







# **MEDIC 1, MEDIC 2, MEDIC 4, MEDIC 5 AND MEDIC 8**

- Due to the mileage experienced by front-line service medics in the City of Frisco, we anticipate these units will be replaced for front-line service in 2018 (M1, M2 and M4) and 2019 (M5 and M8).
- These units will transition into a reserve status for an additional 5-year period.





# Replacement Apparatus

FY 2019



- CCOM – Upgrade

- \$500,000



- Medic 5

- \$582,000



- Medic 8

- \$582,000



# Replacement Apparatus

FY 2021

- Quint 5
  - \$1,620,000





# Apparatus Service Schedule

- The replacement cycle is based on vehicle mileage, engine hours, maintenance cost and technology advancements. This plan has a number of components and goals, the first of which is to standardize apparatus specifications to ensure consistent equipment with consistent capabilities.
- Replacement of front-line service apparatus before the end of its useful lifecycle so that it can perform a reliable role as a reserve apparatus. The reserve apparatus program is in place so that anytime a front-line service unit is out of service for repair, the personnel use a reserve unit. This means that reserve equipment has to be reliable to meet the emergency needs of the community.





# Outdoor Warning Sirens

- Siren System Expansion
- FY 2015
  - \$221,130 (6 Total)
- FY 2017
  - \$265,356 (7 Total)







# OUTDOOR WARNING SIRENS (OWS)

- For the Outdoor Warning Siren (OWS) System expansion, we anticipate the need for an additional thirteen (13) siren locations during the next 7-year period.
- We anticipate the additional OWS locations to be a significant need over the next 7-years due to the uncertain nature of developments, how that development is located within the City, and how quickly that development will occur.
- We are comfortable that this number will provide the opportunity to maintain coverage with continued growth projections. The budget estimates provided do not include increases to annual maintenance, software and hardware replacements or service contracts for any portion of the current or proposed system. These items are typically included within the Fire Department Annual Operating Budget.



# Bond Summary

|                         |                     |
|-------------------------|---------------------|
| • New Facility Total    | \$37,500,000        |
| • Facility Renovations  | \$3,850,000         |
| • New Apparatus         | \$2,944,000         |
| • Replacement Apparatus | \$12,542,000        |
| • Equipment Siren       | \$486,486           |
| <b>Total</b>            | <b>\$57,322,486</b> |





Our Goal:

*Take Care of Frisco!*



Thanks for all  
your SUPPORT!

